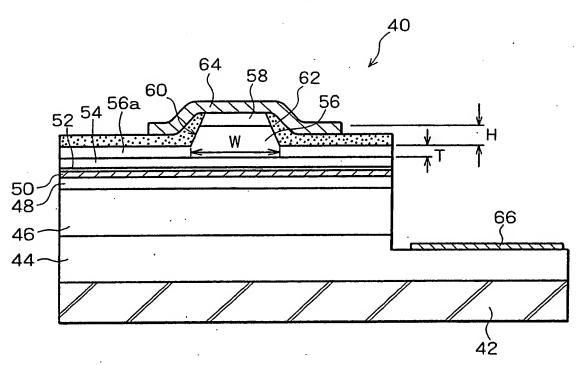
FIG.1



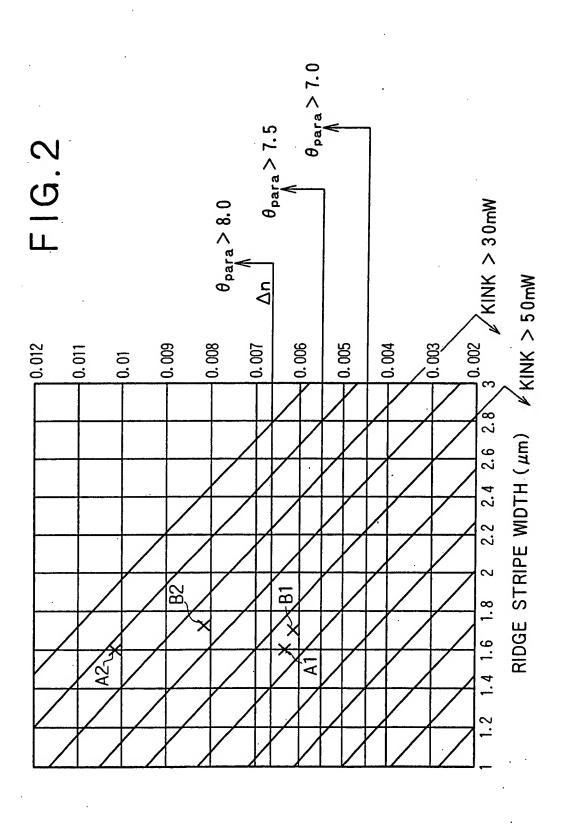


FIG.3

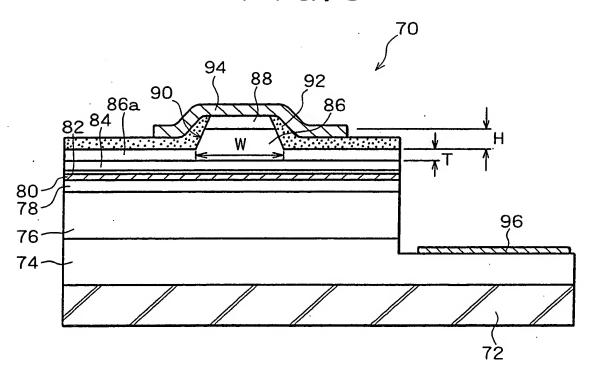
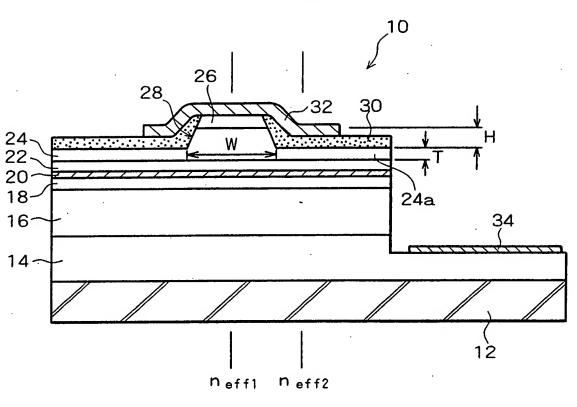


FIG.4



 $\Delta n = n_{eff1} - n_{eff2}$

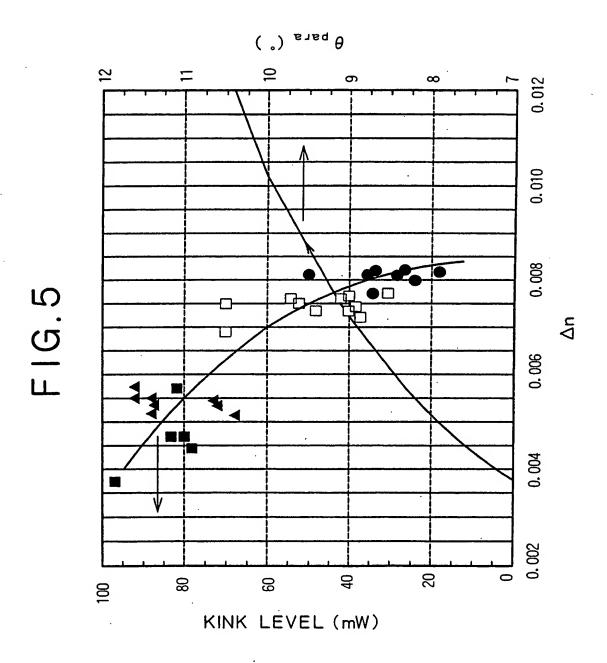


FIG.6

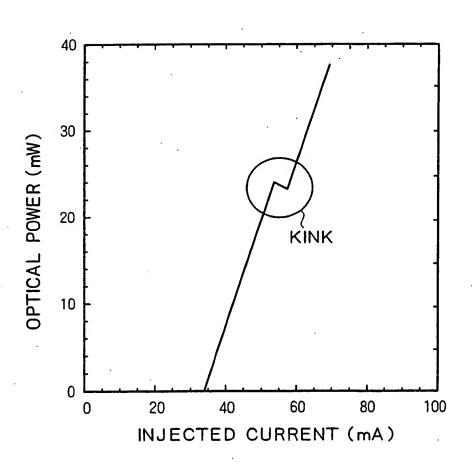
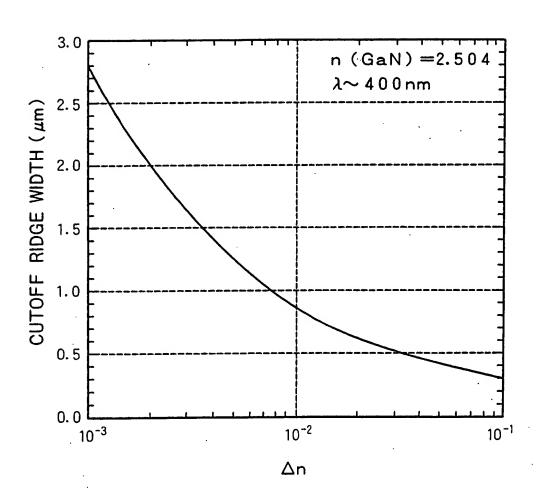
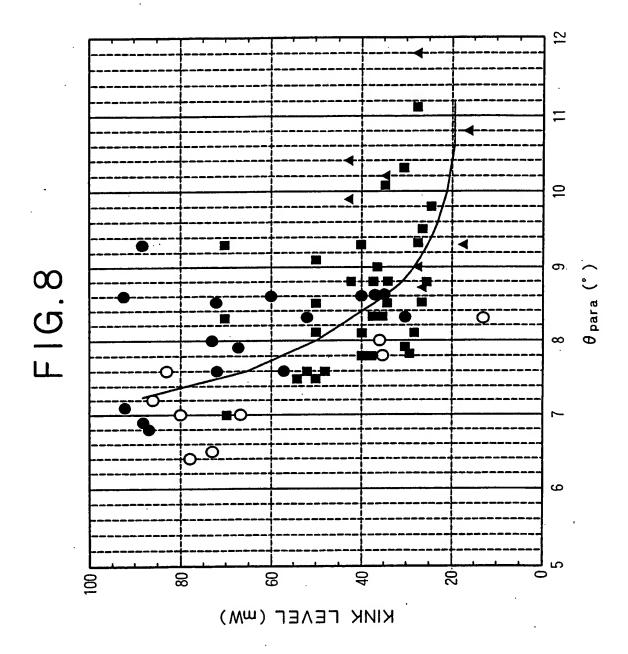
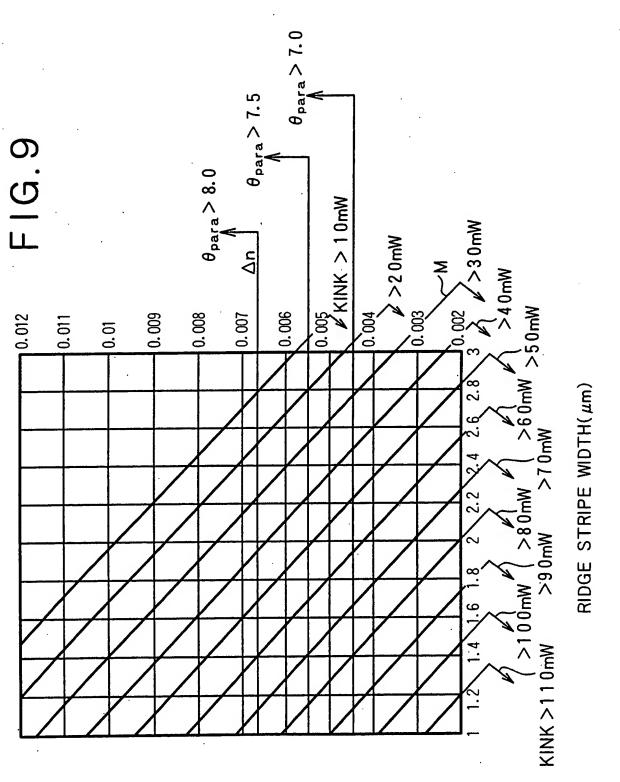


FIG.7







RIDGE STRIPE WIDTH(μm)